CLAIMS

1. Amethod of inhibiting OPN production, comprising administering an effective amount of a pyridazine derivative represented by the following formula (I) or a derivative thereof:

[Chemical Formula 2]

wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen

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atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

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A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

 $\,$ X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated $\,$ C_{1-6} alkyl group.

2. The method of claim 1, wherein in the formula (I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${\ensuremath{R}}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

The method of claim 1, wherein in the formula (I),

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

R² is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

- 4. The method of claim 1, wherein the active ingredient is
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,
 - 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl
- 20]-2H-pyridazin-3-one,

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- 2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,
- 5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.
- 25 5. An OPN production inhibitor, comprising as an

active ingredient a pyridazine derivative represented by the following formula (I) or a derivative thereof: [Chemical Formula 3]

$$\begin{array}{c}
R^{1} \\
\downarrow \\
N \\
N \\
A - R^{3}
\end{array}$$
(I)

5 wherein:

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 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups;

a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

The inhibitor of claim 5, wherein in the formula(I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${\ensuremath{R}}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

- 7. The inhibitor of claim 5, wherein in the formula(I),
 - ${\ensuremath{\mathsf{R}}}^1$ is a phenyl or pyridyl group which may be

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substituted at the 4-position thereof with a chlorine atom or a methoxy group;

R² is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group, 4-chlorophenyl group, 2-pyridyl group or 3-pyridyl

group; and

A is a methylene group, ethylene group or 2-propenylene group.

The inhibitor of claim 5, wherein said active 10 8. ingredient is

> 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl) -2H-pyridazine-3-thione,

> 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py)ridylmethyl)-2H-pyridazin-3-one,

> 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,

> 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,

2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,

5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.

A preventive and therapeutic agent for a disease 9. resulting from enhanced OPN production, comprising as

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an active ingredient a pyridazine derivative represented by the following formula (I) or a derivative thereof:

[Chemical Formula 4]

$$R^1$$
 N
 N
 N
 $A-R^3$

(I)

wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy

groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino

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groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

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X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

10. The preventive and therapeutic agent of claim 9, wherein in the formula (I),

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 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

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 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

R³ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

11. The preventive and therapeutic agent of claim 9, wherein in the formula (I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

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m R}^2$ is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

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R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

- 12. The preventive and therapeutic agent of claim 9, wherein said active ingredient is
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,
 - 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,
 - 2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.
- 25 13. Use of a pyridazine derivative represented by the

following formula (I) or a derivative thereof for the production of an OPN production inhibitor:

[Chemical Formula 5]

$$\begin{array}{c}
R^{1} \\
\downarrow \\
N \\
N \\
A - R^{3}
\end{array}$$
(I)

5 wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups;

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a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

14. Use of claim 13, wherein in the formula (I), R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${\rm R}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

15. Use of claim 13, wherein in the formula (I), R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

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 ${\ensuremath{\mathsf{R}}}^2$ is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

- 16. Use of claim 13, wherein said active ingredient is
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,
 - 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,
 - 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,
 - 2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,
- 5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.
 - 17. Use of a pyridazine derivative represented by the following formula (I) or a derivative thereof for the production of a preventive and therapeutic agent for a disease resulting from enhanced OPN production:

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[Chemical Formula 6]

(I)

wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or

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unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

18. Use of claim 17, wherein in the formula (I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${\rm R}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

19. Use of claim 17, wherein in the formula (I),

R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

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m R}^2$ is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

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R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

20. Use of claim 17, wherein the active ingredient is

5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,

5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,

5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,

2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,

] Zii pyrrdaziii 3 one,

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2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,

5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.

21. An OPN production inhibitor composition comprising a pyridazine derivative represented by the following formula (I) or a derivative thereof and a pharmaceutically acceptable carrier:

[Chemical Formula 7]

$$\begin{array}{c}
R^{1} \\
\downarrow \\
N \\
N \\
A - R^{3}
\end{array}$$

wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl

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groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

The composition of claim 21, wherein in the formula(I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${
m R}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

The composition of claim 21, wherein in the formula(I),

R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

 ${\ensuremath{\mbox{R}}}^2$ is a phenyl group substituted at the 4-position

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thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group,

4-chlorophenyl group, 2-pyridyl group or 3-pyridyl

group; and

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A is a methylene group, ethylene group or 2-propenylene group.

24. The composition of claim 21, wherein the active ingredient is

5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,

5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,

5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,

2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,

2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,

5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one, or a salt thereof.

25. A preventive and therapeutic agent composition for a disease resulting from enhanced OPN production, comprising a pyridazine derivative represented by the following formula (I) or a derivative thereof and a pharmaceutically acceptable carrier:

[Chemical Formula 8]

$$\begin{array}{c}
R^{1} \\
\downarrow \\
N \\
\downarrow \\
N \\
A-R^{3}
\end{array}$$
(I)

wherein:

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or

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unsubstituted aminocarbonyl group; a C_{2-7} alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

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X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

26. The composition of claim 25, wherein in the formula(I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${
m R}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

The composition of claim 25, wherein in the formula(I),

R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

 ${\ensuremath{\mathsf{R}}}^2$ is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

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- 28. The composition of claim 25, wherein the active ingredient is
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,
 - 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,
 - 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,
 - 2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,
- 5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one,
 or a salt thereof.
 - 29. A therapeutic method of a disease resulting from enhanced OPN production, comprising administering an effective amount of a pyridazine derivative represented by the following formula (I) or a derivative thereof:

[Chemical Formula 9]

wherein:

(I)

 R^1 means a phenyl or pyridyl group which may be substituted by 1 to 3 substituents selected from halogen atoms and C_{1-6} alkoxy groups;

 R^2 means a phenyl group which may be substituted at the 4-position thereof with a C_{1-6} alkoxy group or C_{1-6} alkoxythio group and may also be substituted at one or two other positions thereof a like number of substituents selected from halogen atoms, C_{1-6} alkoxy groups and C_{1-6} alkoxythio groups;

 R^3 means a hydrogen atom; a C_{1-6} alkoxy group; a halogenated C_{1-6} alkyl group; a C_{3-6} cycloalkyl group; a phenyl, pyridyl or phenyloxy group which may be substituted by 1 to 3 substituents selected from halogen atoms, C_{1-6} alkyl groups, C_{1-6} alkoxy groups, carboxyl groups, C_{2-7} alkoxycarbonyl groups, nitro groups, amino groups, C_{1-6} alkylamino groups and C_{1-6} alkylthio groups; a substituted or unsubstituted piperidino, piperidyl, piperazino or morpholino group; a substituted or

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unsubstituted aminocarbonyl group; a C2-7 alkylcarbonyl groups; or a substituted or unsubstituted piperazinocarbonyl group;

A means a single bond, a C_{1-6} linear or branched alkylene group, or a C_{2-9} linear or branched alkenylene group; and

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X means an oxygen atom or a sulfur atom, with a proviso that A is a single bond when R^3 is a halogenated C_{1-6} alkyl group.

30. The method of claim 29, wherein in the formula (I),

 R^1 is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a halogen atom selected from fluorine, chlorine or bromine or a C_{1-6} alkoxy group;

 R^2 is a phenyl group substituted at the 4-position thereof with a C_{1-6} alkoxy group or a C_{1-6} alkylthio group;

 ${\ensuremath{R}}^3$ is a hydrogen atom or a phenyl or pyridyl group which may be substituted by halogen atom or atoms; and

31. The method of claim 29, wherein in the formula
(I),

A is a C_{1-3} alkylene group or C_{3-4} alkenylene group.

R¹ is a phenyl or pyridyl group which may be substituted at the 4-position thereof with a chlorine atom or a methoxy group;

 ${\ensuremath{\mathsf{R}}}^2$ is a phenyl group substituted at the 4-position thereof with a methoxy group or a methylthio group;

R³ is a hydrogen atom, phenyl group,
4-chlorophenyl group, 2-pyridyl group or 3-pyridyl
group; and

A is a methylene group, ethylene group or 2-propenylene group.

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- 32. The method of claim 29, wherein the active ingredient is
- 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(2-py ridylmethyl)-2H-pyridazine-3-thione,
 - 5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2-(3-py ridylmethyl)-2H-pyridazin-3-one,
 - 5,6-bis(4-methoxyphenyl)-2-(4-chlorocinnamyl)-2H-py ridazin-3-one,
 - 2-benzyl-5-(4-chlorophenyl)-6-[4-(methylthio)phenyl]-2H-pyridazin-3-one,
 - 2-(4-chlorobenzyl)-6-(4-methoxyphenyl)-5-(4-pyridin yl)-2H-pyridazin-3-one,
- 5,6-bis(4-methoxyphenyl)-2-ethyl-2H-pyridazin-3-one,
 or a salt thereof.
 - 33. The method of claim 29, wherein said disease resulting from said enhanced OPN production is post-PTCA restenosis, a kidney disease, tuberculosis,
- 25 sarcoidosis, cirrhosis, colorectal cancer, ovarian

cancer, prostatic cancer, breast cancer, urinary
calculus or myelomatous tumor.

34. The method of claim 29, wherein said disease resulting from said enhanced OPN production is multiple myeloma.